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ABSTRACT

The data presented on microcomputer usage in the Oklahoma public schools are based on a 37.5 percent response to a survey mailed to the 1,785 school building principals in the state. The results are reported separately for elementary, middle, and secondary schools, including numbers of microcomputers with brand name and model, peripheral devices, and department assignment. Grade level, subject area, and program source are listed for both commercially and locally-developed software programs in use. Also provided is information on the types of problems schools are experiencing in using microcomputers, their plans to acquire additional equipment, school personnel's interest in a career guidance software package, personnel who need more training, and the type of training desired. This survey is to be the basis for activation of a microcomputer section, including a technical center, in the Oklahoma State Department of Education. (LMM)

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MICROCOMPUTERS IN OKLAHOMA SCHOOLS, A SURVEY

THE STATE OF USAGE OF MICROCOMPUTERS IN OKLAHOMA'S PUBLIC SCHOOLS IN JANUARY 1982

by

Oklahoma State Department of Education

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INSTITUTION Oklahoma State Department of Education, 2500 N. Lincoln Blvd., Oklahoma City, Oklahoma 73105

PUB DATE March 1982

ABSTRACT

This survey shows the current state of usage of microcomputers in the public schools of Oklahoma. Motive for the survey resulted from the high level of interest indicated by classroom teachers and administrators who attended a statewide workshop and seminar on microcomputer applications sponsored by the Oklahoma State Department of Education through the Regional Exchange Program of Southwest Educational Development Laboratory in Austin, Texas. The survey ascertains the numbers of pieces of hardware, the make and type, the software programs in use, both commercially developed and locally developed, the departments to which equipment is assigned, the disciplines in which the equipment and programs are used, the personnel who need more training, and the type of training desired, the kinds of problems schools are experiencing, the schools which permit student usage of microcomputers, plans to acquire equipment and asks if schools would desire a software package usable in promoting career guidance programs. The survey instrument was color coded according to elementary, middle school and secondary levels and was sent to all 1,785 public school buildings in Oklahoma. A total of 669 responses were received, or 37.5 percent. The data is being used to activate a microcomputer section, including a technical center, in the Oklahoma State Department of Education which will also publish a curriculum guide for distribution in the fall of 1982.

MICROCOMPUTERS
IN
OKLAHOMA SCHOOLS
A SURVEY

Information gathered through a survey on microcomputer use in Oklahoma's public schools provides a clear picture of current applications but it also clearly points the way toward possible future uses. It also underscored the needs and concerns of Oklahoma's teachers and administrators.

The survey, prepared by a committee representing the Oklahoma State Department of Education, University of Oklahoma, Oklahoma State University and representatives of several school districts, including vocational-technical, was mailed to every school building principal in the state.

Of the 1785 surveys mailed, 669 were returned, or 37.5 percent. The surveys were color coded by level, elementary, middle, and secondary.

Let's look, first, at current uses and types of hardware already owned by the responding school districts.

Altogether, the responding districts reported using 947 microcomputers. There were 141 on the elementary level, 166 on the middle school level (this includes junior highs) and 690 on the secondary level.

The survey clearly showed that the marketing efforts of one particular company have dominated the field when it comes to selling the hardware.

On the elementary level, there are 84 Radio Shack TRS-80 machines, followed by 35 Apples, 10 Commodore Pet and Atari machines and one each of Texas Instruments and Bell & Howell.

Of the 166 middle school machines, 113 are from Radio Shack, followed by 44 Apples, four from Commodore Pet, one Atari, two Bell & Howell.

Radio Shack also is predominate on the secondary level where 500 of the 690 black boxes are from Radio Shack. They are followed by 94 Apple, 53 Commodore Pet, eight from both Atari and Texas Instrument, 18 from Bell & Howell and one each from Hewlett Packard and Southwest Technical.

To what departments is this equipment assigned?

On the elementary level, 19 are in math departments, 15 assigned to gifted/talented programs and the remainder scattered about in library/media, special education, business, migrant and remedial departments.

In middle schools, 33 math departments have the equipment, followed by business with 7 and gifted/talented and science with six each. The remainder are scattered in a pattern similar to the elementary level, with some in English and counseling departments.

Higher up, at the secondary level, math departments control 158 machines, followed by business with 42, science with 30 and gifted/talented with 16. Special ed, administration, accounting, foreign language, the social sciences, reading and libraries have the remainder.

The hardware operated by the responding school districts ranged, in capacity, from a 4K machine to 48K machines. This is technical talk indicating the memory capacity of the box.

The majority, on all three levels, were disc driven machines as opposed to cassette, or tape drive, machines. Elementary reported four tape drives, middle schools three and secondary 18.

Commercial software, or program, packages are dominant, because very few privately designed, developed and produced software packages are available.

On the elementary level, we found such packages as those dealing with basic concepts, fractions, reading, IQ builder, numerous math programs some games and reading. There were also 13 software packages for administrative uses, 13 word processing packages and 69 general utility packages. Similar amounts were reported for the middle and secondary levels.

Middle school software packages reported were similar, in subject matter, to those on the elementary level, but reportedly designed for a somewhat higher grade level usage. These included number theories, speed reading, grammar and advanced statistical analysis, among others.

The number of software packages developed by local staffs was markedly higher on this level and covered such programs as scheduling, report cards, grade recording, prime numbers, typing tests, grade averaging, and others.

On the second level, commercial software packages dealt with a number of administrative applications, including the general fund, building fund account, activity funds, and accounting. Others included basic computer programming, self study, advanced graphics, a mailing list, inventory control, word processing, science and math subjects, business courses, real estate, some games, income tax, remedial programs, library and others.

Software packages developed locally, for the secondary level, included such diverse subjects as grade averages, driver education tests, Oklahoma history tests, chemistry, English, computer literacy, football scouting, basketball statistics, cafeteria records, higher math such as calculus, plus traditional math, science and business programs.

So far, this has been the picture of the present state of the art in microcomputer applications in Oklahoma's public schools. What about the future? Their greatest needs?

On the elementary level, good software with proper validation was expressed as the number one need, followed by a need for additional hardware, and training.

Middle school respondents listed the software need first, followed by more microcomputers, followed by training and a clearinghouse for information.

A slight shift in priorities occured on the secondary level, with more hardware leading the list, followed by more and better software, followed by training. Additional peripherals was next, followed by the need for a clearinghouse for information.

All three levels responded with a resounding yes to the need for additional training. On the elementary level, all classroom teachers were most often listed as wanting more training, followed by administrators and librarians.

On the middle school level, the list was headed by math teachers, followed by science teachers, administrators, language arts, librarians and business teachers.

Math teachers led the list of those wanting more training on the secondary level, followed by business teachers, administrators, science, language arts and librarians. School board members, industrial arts teachers, counselors and special ed teachers were also mentioned.

As to the kinds of problems being experienced, all three levels indicated that teacher knowledge, or lack of it, was number one, followed closely by the same lack in administrators.

All three levels also marked software as a high ranking problem and ranked close to this was the lack of time for training, practice and utilization, by both teachers and students.

All three levels also indicated an average of four hours usage of their microcomputers per day, and all three levels indicated that a majority permitted and encourage student use of the equipment.

Elementary level schools indicated, 42-39, they planned equipment acquisitions in the near future. The middle school response was 31 to nine while secondary level schools said, 28-18, they would be buying equipment soon.

All three levels were alike in their requests for special types of workshops and training sessions. They listed, in rank order, microcomputer awareness, program writing/software design and hardware/software evaluation.

Schools surveyed were also asked how they were communicating guidance skills. All three levels indicated that a majority of them were doing so through infusing career education into the curriculum and a large majority on all three levels said a software package for use in promoting career guidance using microcomputers would be useful in their schools.

The Oklahoma State Department of Education is taking major steps toward responding to the needs of the public schools in Oklahoma. In January, Leslie Fisher, state superintendent of public instruction, ordered the establishment of a new section within the department, sole purpose of which is to provide the kind of support and leadership requested by Oklahoma's teachers and administrators.

A special, microcomputer technology center is in process of being established in the Oliver Hodge building, statewide workshops are being planned, and the microcomputer section's administrator, Susan Wheeler, has been visiting and auditing similar programs in other states in order to put together the best possible system for Oklahoma.

Also authorized is a curriculum guide on microcomputers which is scheduled for publication in time for distribution when the fall, 1982-83 school term opens.

END

MICRO-COMPUTER SURVEY-ELEMENTARY

1. Total number of computers - 141
   Radio Shack TRS-80 - 84
   Apple - 35
   Commodore Pet - 10
   Atari - 10
   Texas Instruments - 1
   Bell & Howell - 1
   Hewlett Packard - 0
   Southwest Technical - 0
   OSI - 0
   Digital PDP 11 - 0
   Other - 0

2.

BRAND	MODEL	RAM	# OF COMP.	DEPT. ASSIGN.	DISK DRIVE	PRINTER	PLOTTER	OTHER
RSTRS80	261066	48K	1	Gifted	2			
	261066	48K	1	Gifted	1			
		16K	1	Gifted	Cassette			
	III	16K	1	Media Center		1		
	III	16K	1	4-6	Tape			
	III	16K	1	Gifted-Talented	1			
	III	4K	2	Gifted				
	III	16K	4			1		
	III	48K	1	Spec. Services	2	yes		
	I	16K	1	5-6			--	Recor
	III	16K	2	Media Center		1		
	III	16K	4	Elem.				
	III	48K	1	Elem.				
	I	16K	10					
	I lev. II	4K	4	5-9		1		
	III lev. II	16K	4	Math		1		
	III lev. II	32K	1	Math		1		
	III	48K	2	Reading-Math				
		48K	1	Title I-Math	2	1		
		16K	2	Title I-Math	Controller			
	III	16K	5	Math				
	III	32K	1	Math	1			
	III	48K	2	Math	2			
	III	48K	1	Library				
	XXXXX	48K	1	Business	1	Daisy Wheel		
	III	16K	1	Media	Cassette	Epson		
	III	48K	1	Media	Cassett			
	III	48K	1	Media	1			
	I	48K	1	G & T	2	1		
	I	16K	6	Math-Science				
	I	32K	3	Math-Science	1	1		
	I	48K	1	Math-Science	2	1		
	I lev. II	16K	1	Math Lab		Quick Printer		
	I	48K	1	Gifted	2	1		
	III	16K	1	Gifted				
		16K	1	Library	Cassette	1		
	III	16K	1	Spec. Ed.				
	III	48K	1	Media	Disk			
	I lev. II	16K	3	Math				
	III	16K	1	Math				
	III	16K	1	Math				

BRAND	MODEL	RAM	# OF COMP.	DEPT. ASSIGN.	DISK DRIVE	PRINTER	PLOTTER	OTHE
	I	32K	1	Title IIIA				
	III	16K	2	Math-Reading				
Apple		48K	1	Title I-Math	2	1		
	X	48K	1	All				
	II+	48K	1	Resource Center	1			
	II		2	Spec. Ed.	2			
	II+	48K	1	Elem. G/T	2			
	D0532	48K	1	Math	1	Yes		
	II+	48K	1	Elem. G/T	2			
	A251048B	48K	1	Gifted	1			
	A251032B	48K	1	Gifted	1			
	035392		1	Rem. Math	1	1		
	II	48K	3		1	1		
	II	48K	1	Gifted	Disk II			
	I		1	Migrant				
	AsM0003	48K	1	Media Center	1			
	3048D	48K	1	Media Center	dual	MX-70		
	II+	48K	1		1			
	II+	48K	3		TX. Inst.	TX. Inst.		
	II+	48K	4		1	2		
	II+	48K	8		1	1		
	II	48K	1	Rem. Math	1	1		
Com Pet	Vic 20	5K	1					
	2CBM	32K	7	Computer	1/7	1/7		
	Vic 20	5K	1	2nd				
	2001	32K	1	Math	2	1		
Atari	400	8K	1	Title I				
	800	48K	1	General				
	800	48K	1	Library	1	1		
	400	16K	1	Title I	Tape Player			
	400	8 & 16K	2	Media	1	On order		
	800	32K	1	Media				
	400	32K	1	Science		1		
	800	48K	2	Library	1a810	Cenronics 739		
TX.Ins.	9914A	16K	1	R.C.	Mod. Cass.			
B&H	3048D	48K	1	Migrant	1			

3. Commercial software packages - 127

TOPIC	GRADE LEVEL	SUBJECT	SOURCE
Basic Concepts	K-8	Math	Radio Shack
Fractions	4-6	Math	individual
Reading	3-		Atari
IQ Builder	K-	Math	Atari
Dorsett Educ. System	1-5	Reading/Math	
Rem. Math	5-8	Math	Random House
Rem. Reading	1-8	Reading	Random House
Math	5-8	Math	Radio Shack
Math	5-8	Math	Creative Publicat
Math, Geom, Prog.	9-12	Math	Radio Shack
Math	1-6	Math	Milliken
Basic Programming	11-12	Comp. Science	Radio Shack
Word Processing	11-12	Bus. Machines	Radio Shack
Various			Many
Math	4-5	Math	Purchased
Social Studies	4-5		
Math	2-5		
Language Arts			
Reading	K-6		
Math	K-6		
Level II BASIC	Inter.	Com/Science	Radio Shack
Most of Radio Shack's software for Model I			
Number Magic	K-3	Math	Texas Instrument
Early Reading Fun	K-2	Reading	Texas Instrument
Variety of Educ. Games	1-6	Variety	Dr. Daley
Teacher's Aid			Radio Shack
Elisa		Artif. Intell.	
Comprehension Power Program	1-4		Milliken
Genis I System			Bell & Howell
K-8 Math	K-8	Math	Radio Shack
Algebra	HS	Algebra	Tycorn Assoc.
Geometry	HS	Geometry	Microphy Programs
Points	HS	Geometry	
Math	1-8		Milliken
Math	1-6		SRA
Variety	1-6	Variety	Dr. Daley
Mathematics	3-4	Math	SRA
Math	K-8	Math	Radio Shack
Math	6-8	Math	Radio Shack
Math	Elem.	Math	Milliken
Comp. Discovery	Elem-Jr. High	Comp. Awareness	SRA
Basic Tutorial	all	BASIC lang.	Sterling Swift
Math & Physics	5-12	Math	Radio Shack
Galaxy Math	3-8	Math	Radio Shack
Computer	Secondary		Radio Shack
Science	Secondary		Radio Shack
Math	Secondary		Radio Shack
Math	1-6		Milliken & SRA
SRA Comp. Drill	Level A & B	Math	SRA
Games			Radio Shack
Instruc. Course			Radio Shack

TOPIC	GRADE LEVEL	SUBJECT	SOURCE
Reading	1-6	English	Sexton and Sexton
1 BASIC Tutor			
Game	4-6	Paddleball	Radio Shack
Game	4-6	Space Warp	Radio Shack
Game	4-6	Haunted House	Radio Shack
K-8 Math Program	K-8	Math	Radio Shack
Math Skills	5	Math	Mentor
Readability		Reading	Educational Act.
Grade Book			Micro Power and Lig
Middle School Science	5-6	Science	MECC
Economics Stimulation	4-8	Economics	MECC
Prefixes	2-6	Lang. Arts	MECC
Math Mgmt.	1-6	Math	Milliken
Math-metrics	3-6	Math	MECC
Science	3-8	Science	MECC
Social Studies	3-6	Social Studies	MECC
Learning BASIC	5-	Computer Programming	Programs Design Inc
	1-5	Math	Dorsett
	1-5	Reading	Dorsett
	1-5	Math-Reading	DDI-Atari
Administrative			
IQ Builder Set	4-8	Numbers sequence	Radio Shack
History/Geog.	4-5	Social Sciences	SVE
Grammar	2-5	Lang. Arts	SVE
SRA Comp. Drills	5	Math	SRA
SRA Comp. Drills	4	Math	SRA
THEIS Chief			
Math Facts			
Spellbound			
Space Invaders			
Essential Math	K-8	Math Tandy	
Math II	K-8		Tandy
Teacher Aide	Adm.		Tandy
Quick Quiz	Adm.		Tandy
BASIC			
History	6	U.S. History	Atari
Reading	6	Literature	Atari
	9-10	Math	SRA
	6-8	Math	Dallas Public School
Atari Pilot	K-	Logo Language	Atari
Conversational Spanish	Elem.	Foreign Lang.	Atari
"How to Program"	2-3		Atari
Disk Course of TRS80 Model II	11-12	Comp. Math	Radio Shack
Tape Instruction Course	9-10	Comp. Math	Radio Shack
IQ Builder	5-9	Comp. Math	Radio Shack
SRA	K-6	Math	
Milliken	K-6	Math	

4. Commercial software packages relating to:
   Administration - 13
   Word Processing - 13
   General Utility - 69

5. Software developed by staff locally:

TOPIC	GRADE LEVEL	SUBJECT
Inventory	Adm	Equipment, etc.
Word List	5-6	Spelling
Graphics	Gifted	
States, Countries		Social Studies
Grammar	5-6	Language Arts
Card Catalog	4-6	Library Science
Letter identification	kindergarten	Alphabet
class lists for special education classes		
Games	all	Bouncing Ball & Moon landing
Math	5-6	4 basic processes and geometry
Math Drill	2-5	Math
Alphabetizing drill	2-5	Language Arts
Logic Games	2-5	
Graph - State - Graphics Theatre - Weather -		Inventory - Social Studies
Science	6	Science
Reading	6	Creative Writing
Spelling	6	Hangman
Art	6	Super Cube
Fractions, Decimals, Equations	5-9	Math
Addition	1-3	Math
Multiplication	3-5	Math
Spelling	Different levels	
Administrative		Numerous
Wordsearch	ungraded	Language Arts
Learn	ungraded	Language Arts
Sparkle	ungraded	graphics
Elem. math operations	2-9	Math
Add and subtract	1-2	Math
Variety of CAL	3-8	Math
Random Multiplication	K-12	Math
Authors	10-12	English
OK Counties	9	OK History

6. Greatest microcomputer need
   Software - 35
   Additional Microcomputers - 29
   Clearing House for Information - 12
   Training - 41
   Additional Peripherals - 2
   Other - Administrative Programs
   We have no program for grades K-5
   Need computers
   Initial computer
   Knowledge - not training

7. If training was available, would someone attend:
   Yes - 145
   No - 8

7. continued

If yes:
Business Teacher - 15
Math Teacher - 34
Science Teacher - 18
Language Arts Teacher - 8
Administrator - 72
AV Specialist - 18
Elementary Teacher - 151
Librarian - 35
Other - Teacher of Gifted and Talented Students - 3
Title I - 2
Parents
Special Education
Counselor

8. Kinds of problems schools are experiencing with microcomputers:

Software - 22
Teacher's Knowledge - 50
Administrator's Knowledge - 31
Knowledge/ideas of what to do with it - 30
Time availability - 23
Service - 3
Grade Level Applicability - 13
Curriculum Appropriateness - 16
Other - Scheduling
Costs
Too many non-compatible kinds of hardware and software
Knowledge base
Money
Obtaining Funds
Number of computers
Good software and number of computers

9. Hours per day the microcomputers are used - average 4.05

10. Do students use microcomputers:

Yes - 66
No - 21

11. Type of workshop that would be most valuable to administration and faculty:

Microcomputer Awareness: - 94
Program Writing/Software Design - 65
Hardware/Software Evaluation - 29
Other - Program design
Administrative programs

12. If there are no computers, will they purchase one in the near future:

Yes - 42
No - 39

13. How Career Guidance Skills are presently being communicated:

Infusing Career Education into curriculum - 110
Career Guidance Center - 8
Career Resource - 17
Computer System (GIS, SIGI, etc.) - 1
Relying totally on the counselor - 48
Mobile Units - 13
Using Vital Information in Education and Work (VIEW) - 20
Career Days Only - 19
No Career Education Program - 9

14. Would a software package for use in promoting career guidance using the microcomputer be useful in their school:

Yes - 62
No - 13

MICRO-COMPUTER SURVEY - MIDDLE SCHOOL

1. Total number of computers - 166
   Radio Shack - 113
   Apple - 44
   Commodore Pet - 4
   Atari - 1
   Texas Instrument - 0
   Bell & Howell - 2
   Hewlett Packard - 0
   Southwest Technical - 0
   OSI - 0
   Digital PDP 11 - 0
   Other - Vector
   Interact

2.

BRAND	MODEL	RAM	# OF COMP.	DEPT. ASSIGN.	DISK DRIVE	PRINTER	PLOTTER	OTHER
RSTRS80	II	16K	1	Math				
	III	48K	1	Administration	2	yes		
	lev. II	16K	2	Gifted/Talented		1		
	III	48K	2	Title I	2	2		
	III	16K	6	Classroom	6			
	III	16K	2	Math				
	III	32K	1	Math	1			
	lev. I		1	Bus. Educ.				
	I	16K	6	Math				
	I	32K	1	Math	1			
	III	16K	4	Math/Comp. lit.				
	III	48K	2	Math/Comp. lit.	2	Epson MX80		
	II	16K	2	Math/Science	cassette	quick print		
	III	48K	1	Bus.	2	yes		
	I	16K	1	Bus.	2			Netwo
	III	16K	4	Bus.				
	I lev. II	16K	2	Math				
	III	16K	1	Math				
	I	48K	1	Gifted/Talented	1			
	I	48K	1	Bus.	2	yes		
	III	16K	1	Bus.				
	III	16K	1	Bus.				
	III	16K	6					
	III	48K	1		2	1		
	I	16K	1					
	I	16K	3	Math	2	1		
	I	32K	1	Math	1	1		
	III		1					
	26-1201	16K	1	Media Center				
	Color	16K	1	Math				
	III	16K	2	Library				
		16K	5	Math	Cassette	1		
	III	48K	1	Media Center	2			
	III	32K	1	Library	Cassette			
	I	16K	5	Math		1		
	I	16K	1	English/Math				
	Color	14K	2	English/Math		LP VII		
	I lev. II	16K	1	Science	1			
	80		1	Math				

BRAND	MODEL	RAM	# OF COMP.	DEPT. ASSIGN.	DISK DRIVE	PRINTER	PLOTTER	OTHER
RSTRS80		16K	4	Math		1		
		48K	1	Math				
	III	48K	4	Media Center	2&1	MX80		
	III	16K	1	Gifted/Talented				
	II		1					
	I	16K	6	Math/Science				
	I	32K	3	Math/Science	1	1		
	I	48K	1	Math/Science	2	1		
	II	16K	1	General		Line		
	Lev. I	4K	1	Math		Video Dis.		
	I	16K	1	Counselor				
	I	16K	1	Math				
	III	16K	7	Math				
	III	16K	1	Math	5¼			
		16K	1	Office	1	1		
	II	4K	1	Math				
Apple	II+	48K	6	Math	1	yes		
	II	48K	1	Title IVA	Disk II			
	II+	48K	3		TX Inst.	TX Inst.		
	II+	48K	1	Math	1	Qume		
	II+	48K	3		1	1		
	II+	48K	1	Gifted	1-D.D.			
	3048D	48K	1	Floating	1			
	II	48K	2	5	4	Floppy Disk		
	II+	16 & 48K	4	Math	1			
	I	48K	1					
	II	48K	3	Math/Science	1	1		
	AA11040B	48L	3	Gifted Math	1	1		Color T
	II		2	1				
	II+	48K	8	all	Corvus Syst.	Epson		
	II+	48K	1	Math	1			
	II+	48K	1	Gifted				
Com.Pet	I	32K	1	Math				
		16K	3	Math				
Atari	800+M	16K	1	Media Center	810	825Col.		
B&H	X	64K	1	English	1	1		Monito
	3048D	48K	1	Library	1	MX-100		
Vector	I							
InteractI			2	Math				

3. Commercial software packages - 219

TOPIC	GRADE LEVEL	SUBJECT	SOURCE
Adventure Games	4-12		Creative Computing
Microtyping	4-12	Typing & Programming	Hayden
Memory Building	4-12		DDI
Radio Shack - Games Packet			
Physics/Math	4-12	Math/Physics	
IQ Builder/Reading	1-12	Title I	
Prog. Course, Scripset	1-12	Programming	
Essential of Math	7-12	Math	Radio Shack
BASIC Math	K-8	Math	Radio Shack
Fractions/Decimals	5-8	Math	Educational Activity Inc.
Math Sequences	1-8	Math	Milliken
Basic Math Facts	3-8	Math	Microcomputer Math Program

TOPIC	GRADE LEVEL	SUBJECT	SOURCE
Basic Math Facts	3-6	Math	Fundamental Math, Random Hou
Basic Math Facts	6-8	Math	Essential Math, Bertamex
Basic Programming	7-12	Program Development	Radio Shack
Class File	Teacher	Class mgmt.	TYC Software
Tutorial Math	K-12	Addition thru Alg.	Radio Shack
Critical Reading	HS	Reading Word Processing	Radio Shack
Administrative System Master	HS	all	Apple
Gradebook	all	all	Creative Computing
Space Invaders	all	all	Creative Computing
EZ Writer	all	all	
Scripsit	HS	Word Processing	Radio Shack
Grammar	low sec.	Parts of Speech	
Literature	low sec.	Classics	
Word Search		Spelling	
Games	all	Math/English	Title IV - C
Genis I		enrollment	Bell and Howell
Work Processing	HS		Radio Shack
Math		Math	Radio Shack
English		IQ	Radio Shack
Level II Instruction Package			Radio Shack
Disk Instruction Package			Radio Shack
Computer Literacy	7-8	History	SRA
Science	7-8	Astronomy	MECC
States and Capitols	7-8	Social Studies	MECC
Graphing Number Patterns	7-8	Math	MECC
Bus. Education	4-8	Math/English	
Educ. Games	K-12	Math	Creative Computing
More BASIC Comp. Games	K-12	Math	Creative Computing
BASIC BASIC	HS	Com. Math	Hayden Publisher
IQ Builders	HS	Syn/Ant.	Radio Shack
Spelling Software	6-7	Scrambled letters	Educ. Activities
History/Geography	6-	History/Geography	Opportunities for Learning
Math	1-6	Math	Milliken
Math/Science	7-12	Chem/Alg.	Programmer International
Computer Discovery	8-12	Use of Computer	SRA
Applesoft BASIC	8-12	Comp. Tutorial	Sterling Swift Pub. Co.
Multi Disciplinary	Elem	Multi	MECC
Math/Drill & Instruction	6-8	Math	SRA
Classroom Mgmt System	6-8	Math	SRA
Math	3-8		Milliken
Language Arts	3-8		Milliken
Comp. Awareness	4-9	SVE	
Math	6-8	Math	Radio Shack
Script			Radio Shack
Spelling	4-6	English	Instant Software
Typing	HS	Comp. Programming	Microsoft
Testing		Analogies/Numbers	Radio Shack
Math	K-8		MCMP
Math	6-8		Random House
General Math	9-12		Hayden Books
Algebra I	Level 1 (8th)	Algebra	Radio Shack
IQ Builder			

TOPIC	GRADE LEVEL	SUBJECT
Graphing Linear Equations	7-8	Math
Teacher Utility	all	Grades
Arithmetic Drills		
Whole Numbers	K-	Math
Adding Fractions	4-12	Math
Averaging Grades	4-12	Math
Solutions for Monial/Binonials	7-9	Alg. I
Admin: Personnel		
Community Educ. Staff Development		
Overdue File		
Card Catalog		
Use of Library		
Elem. Math Operation	2-9	Math
Student Grade Records	6-8	
Vocabulary	8-	English
Spelling	4-8	English
Parts of Speech	7-8	English
Multiplication	remedial	Math

6. Greatest microcomputer need

Software - 54
Additional Microcomputers - 50
Clearing House for Information - 20
Training - 45
Additional Peripherals - 16
Other - Microcomputers to set up a program
Ways to use in class
Time to work with computer
Tape - to disc for added storage

7. If training was available, would someone attend:

Yes - 83
No - 3

If yes:
Business Teacher - 19
Math Teacher - 87
Science Teacher - 55
Language Arts Teacher - 29
Administrator - 48
AV Specialist - 9
Elementary Teacher - 11
Librarian - 28
Other - Tutors
Reading Specialist
Media Aide
Gifted/Talented Teacher

8. Kinds of problems schools are experiencing with microcomputers:

   Software - 17
   Teacher's Knowledge - 28
   Administrator's Knowledge - 17
   Knowledge/Ideas of what to do with it - 23
   Time Availability - 27
   Service - 3
   Grade Level Applicability - 7
   Curriculum Appropriateness - 1
   Other - Which model to purchase
   Teachers adapting to change
   Need HS texts for programming
   Pupil/computer ratio
   Need more units to allow for additional student time
   Poor basic skills
   Lack of information storage
   Need more computers
   Time element for each pupil

9. Hours per day the microcomputers are used - average 3.7

10. Do students use microcomputers:

    Yes - 52
    No - 6

11. Type of workshop that would be most valuable to administration and faculty:

    Microcomputer Awareness - 43
    Program Writing/Software Design - 49
    Hardware/Software Evaluation - 12
    Other - Go over software and text
    Program sharing
    Actual practice sessions
    Material to develop skills
    Teacher information storage

12. If there are no computers, will they purchase one in the near future:

    Yes - 31
    No - 9

13. How Career Guidance Skills are presently being communicated:

    Infusing Career Education into Curriculum - 63
    Career Guidance Center - 13
    Career Resource Center - 17
    Computer System (GIS, SIGI, etc.(- 5
    Relying totally on counselor - 30
    Mobile Unites - 13
    Using Vital Information in Education and Work (VIEW) - 24
    Career Days only - 21
    No Career Education Programs - 4

14. Would a software package for use in promoting career guidance using the microcomputer be useful in their schools:

Yes - 54
No - 21

MICRO-COMPUTER SURVEY - SECONDARY

1. Total number of computers - 690
   Radio Shack - 500
   Apple - 94
   Commodore Pet - 53
   Atari - 8
   Texas Instrument - 8
   Bell & Howell - 18
   Hewlett Packet - 1
   Southwest Technical - 1
   OSI - 0
   Digital PDP 11 - 0
   Other - IBM
   Zenith
   Zerox - 2
   Wang
   APF
   Gould

2.

BRAND	MODEL	RAM	# OF COMP.	DEPT. ASSIGN.	DISK DRIVE	PRINTER	PLOTTER	OTHER
RSTRS80	III	48K	2	Bus.	2			
	II		1	Math				
	I	16K	3	Math	2	1		
	I	16K	2	Math				
	III	16K	1	Math				
	III	48K	1	Math	1	1		
	III	48K	1		2	1		
	III	16K	2			1		
	I	48K	1		2	1		
	III	16K	5	Math/HS				
	I	4K	1	Math/MS				
	III	48K	1	Math/HS	2	1		
	III	48K	1	Math	2	Mark VI		
	III	16K	2	Math				
	III	16K	3	Math				
	I	48K	1	Com/Science	4	1		
	I	32K	1	Com/Science	2	1		
	I	16K	1	Com/Science				
	III	16K	2	Com/Science				
	II	4K	2					
	III	16K	1					
	III	16K	3	Math				
	26-1201	16K	1	Math				
	I	16K	1	Bus.				
	II	16K	7	Math/Bus.	2	Line II		
	Color	4K	1	Math				
	III	16K	4	Math				
	II	16K	1	Math				
	I	16K	7	Math/Science		1		
	III	32K	2	Indian Tutor	2	1		
	Color	32K	1	Math/Comp. Science		1		
	III	48K	1	Math	2			

BRAND	MODEL	RAM	# OF COMP.	DEPT. ASSIGN.	DISK DRIVE	PRINTER	PLOTTER	OTHER
RSTRS80	Lev II	16K	1	Math		1		
	III	32K	3	Comp. Science	1	1		
	III	48K	1	Comp. Science	2			
	Color	16K	1	Math				
	Lev. II	32K	1	Math	1	1		
	Lev. II	16K	1	Library				
	III	48K	1	Math	2	LPVI		Network
	III	16K	4	Math				
	III	32K	9	Bus.		Line VI		
	III	48K	1		2			
	I	16K	1	Bus. Ed.		1		Cassette
		48K	1					
	I	16K	1	Math		Screen		
	III	48K	1	Math	2	Line		
	III	16K	10					Cassette
	I	16K	1	Math	2	1		
	I	32K	1	Math				
	III	48K	3	Bus.	2	1		
	I	4K	1	Math		Line Vii		
	III	4k	1	Math				
	III	16K	1	Math				
	I	16K	3	Math/Bus.	3	2 line		
	III	48K	2	Math	2	1		
	III	48K	2	Math	2	1		
	III	48K	1	Bus.	Disk	6		
	Lev. II	4K	1	Math				
	Lev. II	16K	1	Math				
	Color	16K	1	Math				
	V	48K	1	Bus.	1	Daisy Wheel		
	III	48K	1	Comp. Science	2			
	II Lev. II	4K	7	CS	1/7	1		
	Lev. II	48K	16	Math/Science	4	2		
	I	32K	4	Math	2			
	I	16K	1	Math		1		
	III	16K	4	Math				
			1	Math				
	I	16K	2	Gifted/Talented	1			Cassette
	III	32K	1	Bus.	2	VII Line		
	I	16K	1	Math	2	1		
	III	16K	1	Math	1			
	III	16K	1	Math				Cassette
	III	16K	2	Math/Gifted		1		
	III	16K	3	Math				
	II	16K	1	Bus.				
	I	16K	6	Math/Science				
		32K	3	Math/Science	1	1		
		48K	1	Math/Science	2	1		
	I	16	5	Math		1		
	I	4K	5	Math				
	I	16K	6	Math/Bus.	1/3	1		
	I Lev. II	48K	2	Math	1			
	I Lev. II	16K	1					

BRAND	MODEL	RAM	# OF COMP.	DEPT. ASSIGN.	DISK DRIVE	PRINTER	PLOTTER	OTHER
RSTRS80	I	16K	8	Math	2	2		
	III	32K	1	Bus. Educ.	2	1		
	I	16K	1	Math				
	III	4K	1	Math	Cassette			
		16K	1	Math		yes		
	I	4K	2	Bus.	2	yes		
	I	16K	1	Bus.				
	III	16K	2	Bus.				
	I	48K	1	Reading/Math	2	1		
	I	16K	2	Reading/Math				
	I	32K	1	Math	1	1		
	I	16K	1	Math				
	I	4K	1	Math				
	Color	16K	1	Math				
	II	16K	1	Media Center				
	I	32K	1	Comp. Dept.	1	1		
	I	16K	1	Comp. Dept.				
	III	16K	2	Comp. Dept				
		16K	1	Math/Science				Tapes
	I	32K	1	Math	2	1		
	I	16K	1	Science/Math				
	III	48K	1	Science/Math	2			
	I	16K	1	Science				
	III	16K	9	Science		MX80		
	III	32K	1	Science	2	MX80		Network
	II	16K	1	Math/Science				
	I	16K	1	Math				Cassette
	III	16K	2	Math				
	I	4K	3	Math				
	I	16K	1	Math				
	Lev. II	16K	1	Math	1	Line II		
	I	32K	2	Science	2	U80-Mialen		
	III	16K	2	Bus.		VIII		
	III	16K	4	Bus.	2	mod. VI		
		32K	1	Bus.				
	Lev. III	16K	1	Bus.	Cassette	1		
	Lev. III	48K	1	COE	2	1		
	Lev. I	4K	2	Math	Cassette			
	III	48K	1	Bus.	2	Line 6		
	III	16K	2	Bus.				
	I	16K	1	Gifted	Cassette			
	III	48K	1	Math/Science	2	yes		
	III	16K	2	Math/Science				
	III	48K	1	Bus	2	Line V		
	III	16K	1	Math				
	I	16K	6	Math		1		
	I	32K	1	Math	4	1		Network
	I	16K	5	Math		3		
	III	32K	1	Math	2			
	I	32K	1	Admin.	2	1		
	III	48K	@	Sp. Ed/Comp Sci	2	LP VIII		
	III	16K	6	Comp. Science				

BRAND	MODEL	RAM	# OF COMP.	DEPT. ASSIGN.	DISK DRIVE	PRINTER	PLOTTER	OTHER
RSTRS80	I	48K	3	Science	2	Mod. III		
	III	48K	1	all	2	1		
	III	16K	1	all				
	III	16K	10	Bus		1		
	III	48K	1	Bus.	2			
	III		2	Math				Cassette
	I		1	Math				
	I	16K	3	Math/Comp.Sci.	1			Cassette
	I	48K	1	Math/Comp. Sci.	1	1		Cassette
	III	16K	2	Math/Comp.Sci.				Cassette
	I	16K	1					Cassette
	III	32K	1	Math/Bus.	Dual	1		
	III	16K	1	Bus		Line		
	III	16K	1	Math				
	I	48K	1	Office	2			
	I Lev. II	16K	2	Foreign Lang.		1		
	III	16K	1	Accounting		1		
	I Lev. I	4K	2	Data Process				
	Lev. II	16K	1	Comp. Lab		Quick II		Cassette
	III	16K	2	Math				Cassette
	KTR1215	16K	2	Math				
	I	48K	1	Math	2	1		
	I	16K	6	Math				
	I	4K	5	Math				
	I	16K	1	Math		Quick II		Disk
	III	16K	16	Comp. Room		III		Network
	III	48K	2	Admin.	2	VI Diasy Wheel		
	I	16K	4	Math	1	1		
	III	32K	3	Math	2	1		
	I lev. II	16K	1	Math/Gifted	1	1		
	III	16K	1	Math/Gifted	1	1		
	III	48K	12	Media	3	3		Telepho
	I	48K	1	Gifted/Talented	2	1		Network
	I Lev. II	16K	2	Math				
	III	16K	1	Math				
	I Lev. II	48K	1	Bus		yes		
	I	16K	7	Math		1		
	I	32K	1	Math	2	1		
	II	16K	1	Math		yes		
	I	32K	1	Adm.	2	Mod. I		
	III	48K	1	Bus.	2	1		Cassett
	III	16K	3	Bus				
	III	16K	2	Math				
	I	16K	2	Math				
	I	16K	3	Math				
	II	48K	1	Physics	2	1		
	III	16K	4					
	III	32K	1		2			
	VI		1			1		
	I	32K	1	Adm.	2	1		
	III	16K	2	Elem. Science	Tape	1		
	III	16K	11	Math	1	1	1	Network
	III	48K	4	Math	2			
	III	48K	3	Math	2	1		

BRAND	MODEL	RAM	# OF COMP.	DEPT. ASSIGN.	DISK DRIVE	PRINTER	PLOTTER	OTHER
RSTRS80	III	32K	1	Bus	2	Model III		
	I lev. II	16K	1	Gifted/Talented				
	III	16K	1	Gifted/Talented				
	III	16K	1	Math				
	II	16K	4	Math/Comp. Sci.				
	II	32K	1	Math/Comp. Sci.		1	1	
	III	32K	1	Math/Comp. Sci.		1	1	
	I	4K	5	Math/S.S.	1			
	I	16K	16	Math/S.S.	dual	MX80		
	III	48K	1	Math/S.S.				
	III	16K	8	Math/S.S.				
	I	4K	2	Math	Cassette	2		
	I	16K	2	Math				
	II	16K	11	Math	Cassette	1		
	III	16K	3	Bus/ Math	2			
	III	32K	4	Bus/Math	2	4		
Apple	II	48K	2	Math	1	1		
	II	48L	8	Matj	1	1		
		32K	1	Gifted	2	1		
	III	128K	1	Office	2	1		
	II+	48K	9	Comp.	DOS 3.3	1		
	II	48K	1	Math	1	1		
	II	48K	1	Gen.	1			
	II	48K	1	Math	1			
	II	48K	2	all	1			
	II+	48K	4	Math	3	MX70		
	II	32K	2	Math	1	1		
	II+	48K	1	Adm.	2	1		
	I	48K	1	Reading/Math	2	1		
	II	32K	1	Bus.		2		
	II	48K	3	Math				
	II+	64K	1	Bus	2	Centronics		
	II+	48K	1	Science	3.2 DOS			
	II+	48K	4	Admin.	16.5mb	6300		
	II+	48K	8	Computer	1	cent 704		
	II	48K	2	Math/Gifted	1	1		
	II+	64K	3	Science		TX Inst.		
	II	48K	1	Math/Gifted	1			
	II	48K	1	Math/Bus.	Disk	yes		
	II+	48K	1	Foreign Lang.	1	1		Speaker
	II	32K	1	Math/Gifted	1	1		
	II+	32K	1	Math/Gifted	1			
	II+	48K	8	Math	Central	centronics 737		
	II	48K	2	Math	1	yes		
	1980	48K	2	Sp. Ed./Gifted				
	II	48K	1	Math	1	1		
	II	32K	1	Math	1	460 Tig.		
	II	32K	5	Math		4		
	II	48K	2	Math				
Com.Pet	2001	32K	3	Math/Science	1	1		
	2001	32 & 8K	6	Math	1Dual	1		
	PET & CBM	32K	7	Comp.	1/7	1/7		
	2001	32K	3	Math		1		

BRAND	MODEL	RAM	# OF COMP.	DEPT. ASSIGN.	DISK DRIVE	PRINTER	PLOTTER	OTHER
Com Pet	2001	32K	3	Math/Gifted				
	400	16K	3	Math/Gifted				
	CBM 8032	32K	6	COE	1	6		
	CBM	32K	2	Math/Science	2	2		
		16K	3	Math				Tapes
	8032	64K	1	Office	2	yes		
	CBM 2001	32K	1	Acctg.	Dual Floppy	2022		
	CBM 2001	32K	2	Gen. Gus.	Dual FLoppy	2022		
		8K	1	Science				
	8032	32K	3	Voc. Bus.	Cassette			
	2001	16K	1	Bus	Dual	NEC		
	2001	32K	2	Voc. B & O	Dual	3		
	2040		1	Bus. Ed	2	2020		
	4032	32K	2	Math				
	2001	32K	2	Bus.	4	2		
	2001	32K	1	Math	2	1		
Atari	800	48K	1	Library	1	1		
	800	32K	5	Bus.		MX80		
	8800B	64K	1	Math	1			Decruite
	8800			Time Share				
TX Inst.	9914A	16K	1	RC	Module			Cassette
	9914	16K	8		1	OMNI 810		
B&H	3048D	48K	1	Migrant	1			
	3048D	48K	1	Library	1	MX100		
		48K	8	Comp. Sci.	1	2	1	
		48K	1	Spec. Ed.	1	Epson		
		48K	4	Math	3	TRS80		
		48K	3	Comp. Lab		Quick II		Cass tte
Hew. Pack		48K	1	Math	1			
SW Tech			1	Gifted/Talented				
IBM	5120	32K	1	Bus.	2	5103		
Zenith	HEZ89-48		1	Bus. Ed	single			
Zerox	820	64K	1	Bus.	Disk	yes		
	820	48K	1	Bus. Ed.	2	1		
Wang	PCSII	16K	2	Math	2	1		
APF		17K	1					
Gould		36K	1	Reading	1	Mt805		

3. Commercial software packages - 591

TOPIC	GRADE LEVEL	SUBJECT	SOURCE
General Fund - Building Fund Account			Syntec Data Eng.
Activity Fund Acct.			Syntec Data Eng.
Accounting			PET
Science			Radio Shack
BASIC Lang.			Radio Shack
Games			Radio Shack
Data Processing	11-12		
Business	11-12	COE	
Cassette Tapes for Math	10-12		
BASIC Instruc. Course	HS	Data Processing	Radio Shack
Scripsit	HS	Data Processing	Radio Shack
BASIC Self Study	HS	Data Processing	Radio Shack

TOPIC	GRADE LEVEL	SUBJECT	SOURCE
Administrative			
Computer Intro	Sec.		Radio Shack
Science	Sec.		Radio Shack
Math	Sec.		Radio Shack
Micro Physics	10-12	Physics	Microphysics Program
Gen. Educ.	10-12	Generalized Instruc.	Bell & Howell
Vocab. Builder		Vocabulary	Applesoft
Advanced Graphics	10-12	Math	Radio Shack
Graph. Analy. Exp.	Data 10-12	Sci./Math	Radio Shack
Sripsit	10-12	Word Processing	Radio Shack
Payroll	11-12	Bus. Mach	Radio Shack
Word Processing	10-12	News Paper - off.	Radio Shack
Gen. Ledger	11-12	Acctg I & II	Radio Shack
Work Processing			
Accounting			
Disk Operating Systems			
Games			
Simulations			
English Drill & Practice			
Math Drill & Practice			
K-8 Math	K-8	Math	Radio Shack
Scripsit	HS	Comp. Science	Radio Shack
Visicak	HS	Comp. Science	Radio Shack
Profile	Admin.	Admin.	Radio Shack
Mail List			
Word Processing			
Word Processor			Radio Shack
Alg. I	9-10		Radio Shack
Graphical Analysis	12	Math	Radio Shack
BASIC Course	10-12	Bus.	Radio Shack
Scripsit	10-12	Bus.	Radio Shack
Mail List I	10-12	Bus.	Radio Shack
Math	1-12	Sets, drills	MicroLearning Ware
Math	1-12	Change Maker	MicroLearning Ware
Number Series	7-12	Num. series	Program Design Inc.
Math	7-12	Graphs	Program Design Inc.
Math	7-12	Percents	Educational Act. Inc.
Euclid Tutor	10-11	Geometry	Radio Shack
IQ Builder	11-12	English/Math	Radio Shack
Gen. Ledger	HS	Acctg.	Apple-Amarillo
Math	HS	Math	Apple-Amarillo
Intro to BASIC	HS	General	Apple
Data Processing	11-12		
Scripsit/Cassette	11-12	Word Processing	Radio Shack
Inventory Control	Admin		Radio Shack
Versafile	Admin.		Radio Shack
Scripsit	Admin.		Radio Shack
Typing Tutor	any	Typing	Microsoft
Vocabulary	10-12	Vocabulary	Program Design
Word Processing	12	COE	Commodore
Intro to Computers			
Math Teacher			
Computer Learning Aid			
Individual Study Center	K-12	Biology	TYC

TOPIC	GRADE LEVEL	SUBJECT	SOURCE
Visicale	Adm.		Radio Shack
Inventory	Adm.		Radio Shack
Ledger	Adm.		Radio Shack
Time Mgmt.	Adm.		Radio Shack
Profile	Adm.		Radio Shack
Graphical Anl. of Exp. Data	10-12	Statistics	Radio Shack
Advanced Graphics	10-12	Math	Radio Shack
Vector Addition	10-12	Math	Radio Shack
Interpreting graphs	10-12	Physics	Radio Shack
Scripsit	10-12	Word Processor	Radio Shack
EDTASM	10-12	Word Processor	Radio Shack
Mailing List		Mailing Labels	Radio Shack
Disk Mailing List	HS	Bus.	Radio Shack
Statistical Analysis			Radio Shack
Accounting	Jr.& Sr.	Accounting	Radio Shack
Math/SRA CDIM	8	Gen. Math	SRA
CMS/Classroom Mgmt.	8	Gen. Math	SRA
Mastertype	HS	Typing	Bruce Zevig
Super-Text		Teachers	Muse
Intro to Data Proc.	11-12	Data Processing	Radio Shack
Gen. Ledger	11-12	Accounting	Radio Shack
Family Budget	11-12	Gen. Bus. Economics	Radio Shack
CAI for program BASIC			Sterling/Swift
Math	1-6	+,-,x,etc.	
Reading	5-6	Comprehension	
TRS/BASIC Level II			
Math	1-8	Math	Apple
K-8 Math	K-8		Radio Shack
Essential Math Vol 1	9-12		Radio Shack
IQ Builder	9-12		Radio Shack
Hound of Baskervilles			Radio Shack
HMRS Lindbergh/Earhart	4-6	Reading	Radio Shack
Quick Quiz		Authorizing System	Radio Shack
BASIC Course	9-12	BASIC	Radio Shack
Word Processing	12	Coop. office	Zerox
BASIC programming			Radio Shack
Gen. Ledger	10-12	Acctg 1 & 2	Radio Shack
Scripsit	11-12	Bus. Machines	Radio Shack
Alg., Elem.	9-10	Alg. I	Radio Shack
T-Bug Assembler	11-12	Comp. Science	Radio Shack
Various		Bus, Math, Sci.	CLOAD
Alg. I	9-12	Comp. Sci/Alg. I	Radio Shack
This is Program World	ungraded	Comp. Programming	Radio Shack
BASIC Programming	ungraded	Comp. Programming	Radio Shack
Elem. School	4-6	Sci/Math/S.S.	MECC
Math, Sci, S.S.	7-12		MECC
Programmers Aid	Adult		MECC
Teachers Utilities	Adult		MECC
Alg. I	HS	Alg.	Radio Shack
IQ Builder	HS		Radio Shack
English Basics	Remedial HS	English	Educational Activities

TOPIC	GRADE LEVEL	SUBJECT	SOURCE
Reading Comp.	4-12	English	Milliken
Math	K-8	Math	Milliken
Comp. Programming			Radio Shack
Scripsit	HS	Bus.	Radio Shack
Assorted Games	HS	Bus.	Radio Shack
Game with S. Pole	HS	Bus.	Berg Works, Inc.
Scripsit Word Processing	1-12	Word Processing	Radio Shack
Tape Payroll	10-12	Payroll/Acctg.	Radio Shack
Word Processing	11-12	Word Processing	Xerox
Games			
Course Ware	7-12	General	Apple
Class Schedule	7-9	General	Private
Comp. Discovery	Sec.	Bus.	SRA
Pilot	Sec.	Bus.	Atari
Invitation to Prog.	Sec.	Bus.	Atari
Work Processing	Sec.	Bus.	Radio Shack
Physics	11-12		
Lessons 1-16	10-12	Com. Science	Radio Shack
Disk BASIC 1-4	10-12	Com. Science	Radio Shack
Essential Skills	HS	Math/Sci/LA	Radio Shack
Programming	11-12	Math	Sterling Swift
Engineering Math	11-12	Math	Hayden
BASIC Program	11-12	Math	McGraw/Hill
Math	K-12	BASIC Skills	Radio Shack
Lang. Arts.	K-12	Grammar, Spelling	Radio Shack
Games	K-12	Hist, Math, LA	Radio Shack
Social Studies	2-12	varied	Scholastic Inc.
Science	6-12	varied	Scholastic Inc.
Vector Addition	Sec.	Physics	Radio Shack
Interpreting Graphs	Sec.	Math/Physics	Radio Shack
Payroll	Sec.	Bus.	Radio Shack
Advanced Graphics	10-12	Math	Radio Shack
Math	Jr. & Sr.		
Math Essentials	8-12	Math	Radio Shack
Scheduling	9-12	Scheduling	Mount Caster
Bus Pkg. I, II, III	HS	Bookkeeping	MicroLearning Ware
Type-it	HS	Typing	Bluebirds Inc.
Stem & 10 key	HS	Shorthand	Robert R. Baker, Jr.
Alg. I	9-10	Alg.	Radio Shack
B.C.L.	9-12	Comp.	Radio Shack
Teacher Aide	Instructor		Radio Shack
BASIC Tutorials	10-12	BASIC Language	
Calculus	12	Math	
VisiFile	Office, 10-12	Record Keeping	
BASIC Math	10-12	Math	
Comp. BASIC Disk Drive	HS		Radio Shack
Math	K-8		Radio Shack
Math	Jr. High		
Math	Sr. High		
Comp. Literacy	10-12	Comp. Literacy	Sterling Swift
Math	7-12	Math	Radio Shack
Music	7-12	Music	Radio Shack
Game	4-8		Radio Shack

TOPIC	GRADE LEVEL	SUBJECT	SOURCE
Data Plot	10-12	Statistics	Muse Software
Math I	Beginning	Math	Radio Shack
Apple Writer	11-12	Math	Local Funds
Space & Sports	11-12	Math	Local Funds
Proofs	10-12	Geometry	Radio Shack
Programs	10-12	BASIC	Swift Publishing Co.
Graphing	10-12	Math	Scholastic MicroComput
Profile File Aide			Radio Shack
Microfiles File Aids			Radio Shack
Versafile File Aids			Radio Shack
Budget Maintenance			Radio Shack
Applewriter	12	Office Machines	Apple
Typing Tutor	10-12	Typing	Microsoft
Personal Finance	12	Economics	Apple
Bus. Acctg. System	11-12	Acctg.	BPI Systems, Inc.
Math	9	Math	Radio Shack
Educational Games	K-12	Math	Creative Computing
More BASIC Comp. Games	K-12	Math	Creative Computing
BASIC BASIC	HS	Comp. Math	Hayden
Level II BASIC	HS	Instruction	Radio Shack
Disc BASIC	HS	Disc BASIC	Radio Shack
Algebra	HS	Algebra	Tycom Association
Geometry	HS	Geometry	Microphy Programs
Points	HS	Geometry	Microphy Programs
BASIC programming	11-12	Comp. Science	Radio Shack
Word Processing	11-12	Bus. Machines	Radio Shack
Agriculture	HS		OSU
Bus.	HS	Real Estate/Income Tax	Radio Shack
Math	K-12	Math	Milliken
Reading	1-12	Reading	Milliken
Language Arts	1-12	Alphabetizing	Milliken
Black Jack			Radio Shack
Back Gammon			Radio Shack
Music			Radio Shack
Advanced Graphics	12	Analysis	Radio Shack
Profile		Data Processing	Radio Shack
Disk Instruc. Course			Radio Shack
Word Processing	12	Bus/COE	Commodore
Gen. Ledger Acctg.	12	Bus/COE	Commodore
Payroll	12	Bus/COE	Commodore
Inventory	12	Bus/COE	Commodore
Payroll	10-12	Bus Ed/Acctg.	Radio Shack
IQ Builder	6-12	Lang/Math	Radio Shack
Games	all	Blackjack, Backgammon	Radio Shack
Book of Programs	K-12	varied	Carolina Biological Supp
BASIC Instr.			Radio Shack
Accounting	11-12	Bus.	Radio Shack
Learning Level II	11-12	Computers	Radio Shack
Work Processing	11-12	Bus.	Ramware
Pascal	11-12	Computers	Radio Shack
Spelling	1-6	Remedial	Random House
Math	1-6	Remedial	Random House
Math	1-6	Remedial	Milliken

TOPIC	GRADE LEVEL	SUBJECT	SOURCE
Accounting II	HS	Accounting	
BASIC & Systems Master	11-12	Bus.	Local Funds
Professional Easy Writer	11-12	Bus.	Local Funds
Cartels and Cutthroats	11-12	Bus.	Local Funds
Personal Finance Mgr.	11-12	Bus.	Local Funds
Easy Mailer	11-12	Bus.	Local Funds
Apple Grade Book	Faculty	all	Local Funds
Adv. BASIC II	9-12	Various	various
BASIC II			
BASIC	HS	Programming	Educational Activities,
Stat Analysis	HS	Math	Radio Shack
Alg. I	Jr. High	Math	Radio Shack
Math	Elementary		
Math	HS		
Advanced Math	10-12	Alg. III & Geom.	Commodore
Essential Math Prog.	9-11 Remedial	Math	Radio Shack
Euclid Geometry tutor	10-12	Math	Radio Shack
Scripsit	9-12	Word Processing	Radio Shack
LPS	Library	Cards, catalog	E DUCOMP
BASIC Comp. Prog.			Swift Publishing Co.
Sargon II	7-12	Chess	Hayden
IQ Builder	9-12		TRS80
BASIC Instruc I & II			TRS80
Alg. I	9-12	Bus.	TRS80
Various Games			
Reading Mgmt	1-8	Reading	Hoffman

4. Commercial software packages relating to:

   Administration - 55
   Word Processing - 58
   General Utility - 143

5. Software developed by staff locally:

TOPIC	GRADE LEVEL	SUBJECT
Mathematics	9-10	Algebra
Science	10-12	Physics
Grade Averages	K-12	
Semester & 9 wks. grades	any	grade average
Drivers Ed Tests		
Oklahoma History Tests		
Administrative		
BASIC Prog. Lessons	9-12	
Inventory/School System		
Inventory	Adm.	
Chemistry/elements	10-12	
Chemistry/ions	10-12	
Grading Systems	7-12	Math/English
		Administrative
		Subject Areas
		Games

TOPIC	GRADE LEVEL	SUBJECT
Sine Curve	HS	Math
Signed Numbers	7-12	Math
Evaluating	7-12	Math
Calendar program		Lists school activities
	11-12	General Information
Fractions, Graphing, Ordered Pairs, Check your answers,		pre-testing
Weight Training	9-12	Weight Lifting
Amortization of Loans	11-12	Bus. and Math
Grade Averaging		Teacher
Language Drills		
Grading Records		
Games		
Payroll Sequence Files	11-12	Computer Math Lab
Pool Game	12	Computer Math Lab
Teacher Gradebook	10-12	all
Biology	9-12	Photosynthesis, carbon cycle
Math	11-12	calculus
Math Programs	10-12	Remedial and advanced topics
Game programs	6-12	
Math Games	7-12	Math
State Name Scramble	7-12	Geog/Spelling
State Capitols	7-12	Social Studies
Word Processing		
CAI	9-12	Algebra
Class Records		
Grade Averaging	any	any
Football Scouting	HS	
CAI	BASIC Math	Wholes and fractions
Simple Math	7-8	Math
Class Grade Averaging and letter grade assignment		
Calorimetry and Wheatstone Bridge - Physics		
Grading Systems for each teacher as they desire		
Algebra	8-12	Algebra
Student Records	Personnel	Grade calculation
Grade Averaging/Sorting		Math
Conic Sections	11-12	Alg. II
Sin/Cos	11	Alg. II and Trig
Science, bookkeeping	7-12	Math Independent Study
Math, Sorting	7-12	
Games, Acctg.	7-12	
CAL - Drill Work	9-12	
HS Transcript	9-12	
HS Report Cards	9-12	
Grading Systems	Developed by students for instructors	
English	7-8	Spelling
Computer Literacy	10-12	Usage on Apple II
Teacher Grading System - Develops Disk Files for grading purposes		
Test Generation Program	11	objective type tests
Teacher Aide	Adm.	Radio Shack
Disk Files for student data	10-12	Adm.
Bus. Programs	10-12	Bus.
Checkbook, loan, vocab	HS	computer
Enrollment & Scheduling		

TOPIC	GRADE LEVEL	SUBJECT
Rem. Math Problems	3-4	Math
Group Sort	General	Administrative
Grade Calculation	Staff	
Math	10	BASIC SKills Review
Mgmt.		Grade Book
Lang. Arts	9-12	Vocabulary
Math	Alg. 1 & 2	Equations
Lang. Arts	6-12	Spanish, grammar, reading
Games	K-12	Many
Math	K-12	Basic skills, alg., geometry
Inventory for school supply		
Drills for Remedial Math/Spelling	9-12	LD
Tests for Economics	9-12	Economics
Grade Program	1-12	Recording Student Grades
Money/acctg.	Admin.	Accounting Program
Student Information	Admin.	Student Records
Selected Geometry Topics	10-12	Geometry
Statistics	7-12	Basketball
Student Grades & Attendance		Record Keeping
Basketball Statistics		
Chemistry	HS	Chemistry
Physics	HS	Physis
Elem. Math Practice	Elem.	Math
Aids for Math	Sec.	Math
Work Processing		
Grade Sheet Printout		
Mailing Labels	Admin	
Math	K-	Math
Adding Fractions	4-12	Math
Averaging Grades	4-12	Math
Quadiatic Equations	9-12	Alg. I
Several Math Concepts	9-12	Math
Function Plotter	9-12	Math
Root Scan & apporximation	9-12	Math
Math	9-11	Math
Math Development	6-12	Math
Admin.		Enrollment
Admin.		Scheduling
Grade Averaging	9-12	
Math	7-12	Math
Demon. for programming	HS	Varied - mostly Math
Math Drill	K-12	Math
Computer Science Drill	10-12	Math
Drills	7-12	any
Attendance/Discipline/Lunchroom records		
Graphing	11-12	Trig.
Gen. Intro to BASIC	10-12	all classes
Algebra	10-12	Algebra
Calculus	12	Integration
math Analysis	12	Function Analysis
Grade Recording	all	Math
Math Lesson BASIC Progam	10-12	Math

TOPIC	GRADE LEVEL	SUBJECT
GPA Program	11	Administrative
Math/Science Application	10-12	Chem/Alg. I & II/Trig.

6. Greatest microcomputer need:

Software - 103
Additional Microcomputers - 121
Clearing House for Information - [illegible]
Training - 91
Additional Peripherals - 52
Other - More time
Textbook for teaching computer science
Ways to use in classroom
More disk drive
Educational Resource and Evaluation Material
More memory
General Information
Knowledge
Room space
Special furniture and work stations

7. If training was available, would someone attend:

Yes - 179
No - 8

If yes:
Business Teacher - 125
Math Teacher - 165
Science Teacher - 89
Language Arts Teacher - 36
Administrator - 95
AV Specialist - 16
Elementary Teacher - 35
Librarian - 35
Other - School Board
Industrial Arts
Counselor
Learning Disability
C.S. Instructor

8. Kinds of problems schools are experiencing with microcomputers:

Software - 46
Teacher's Knowledge - 83
Administrator's Knowledge - 43
Knowledge/Ideas of what to do with it -37
Time Availability - 85
Service - 13
Grade Level Applicability - 11
Curriculum Appropriateness - 23
Other - Lack of time

Static Electricity wiping out bytes
Textbooks
Maintenance
Poor basic skills
Mechanical programming
Adapting programs to needs
Mess-up with our disk drive and our power source

9. Hours per day the microcomputers are used - average 4.0

10. Do students use microcomputers:

Yes - 139
No - 9

11. Type of workshop that would be most valuable to administration and faculty:

Microcomputer Awareness - 78
Program Writing/Software Design - 129
Hardware/Software evalution - 40
Other - How to get started
Basic usage
Classroom and administrative uses
Additional programming knowledge
Program construction
Application - uses of computer in education
Uses and operation
Language workshops
Specific courseware
Class in assembler language for 6502
Teaching methods and textbook availability

12. If there are no computers, will they purchase one in the near future:

Yes - 28
No - 18

13. How Career Guidance Skills are presently being communicated:

Infusing Career Education into Curriculum - 120
Career Guidance Center - 37
Career Resource Center - 61
Computer System (GIS,SIGI, etc.) - 9
Relying totally on the counselor - 61
Mobile Units - 50
Using Vital Information in Education and Work (VIEW) - 51
Career Days only - 43
No Career Education Program - 4
Other - Career Education Class

14. Would a software package for use in promoting career guidance using the microcomputer be useful in their schools:

Yes - 142
No - 20